

FORM PTO-1449 (Colb) JAN 09 2002 U.S. PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. U 013475-2	SERIAL NUMBER 09/856,422
U.S. PATENTS AND PUBLICATIONS FOR APPLICANTS' INFORMATION STATEMENT	RECEIVED MAY 10 2002 Technology Center 2800	
	APPLICANT Zvi KAM, et al. FILING DATE May 21, 2001	GROUP ART UNIT N/A

U.S. PATENT DOCUMENTS

Examiner's Initials		DOCUMENT NO.	DATE	NAME	CLASS	SUB	FILING DATE
	AA	5,912,257	June 1999	Prasad et al.	514	356	
	AB	5,787,146	July 1998	Giebeler	378	82	
	AC	5,671,136	Sept. 1997	Willhoit, Jr.	364	421	
	AD						

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		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB	TRANSLATION
	AE	GB 2 321 968 A	Aug. 1998	Great Britain	601V	1/40	
	AF						

OTHER ART (Including Author, Bills, Pertinent Pages, Etc.)

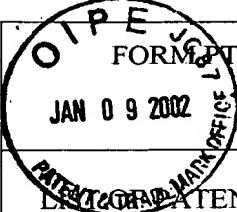
	AG	Pratt, W.K. "Digital Image Processing", NY John Wiley & Sons, Inc., (1991)
	AH	Rosenfeld, A and Kak, A.C. "Digital Picture Processing", Academic Press. (1976).
	AI	Castleman, K.R. "Digital Image processing", Prentice-Hall inc., Englewood Cliffs, New Jersey. (1979).
	AJ	Inoui, S. and Spring, K.S. "Video Microscopy: The Fundamentals", 2nd Edition, Plenum Press, NY (1997).
	AK	Tanford, C. "Physical Chemistry of Macromolecules", John Wiley NY. (1961).
	AL	Allen R.D. et al., "Video-Enhanced Contrast, Differential Interference Contrast (Avec-Dic), Microscopy: A New Method Capable of Analyzing Microtubule Related Motility in the Reticulopodial Network of Allogromia Laticollaria", Cell Motility 1:291-302 (1981).
	AM	Cogswell, C.J. et al., "Confocal Differential Interference Contrast (DIC) Microscopy: Including a Theoretical Analysis of Conventional and Confocal DIC Imaging", J. Microsc. 165:81-101 (1992).
	AN	Gelles, J. et al., "Tracking Kinesin-Driven Movements with Nanometre-Scale Precision", Nature 331:450-453 (1988).
	AO	Ha-usler, G. et al., "Imaging with Expanded Depth of Focus", Zeiss Inform. 29:9-13 (1987).
	AP	Preza, C. et al., "Image Reconstruction for Three-Dimensional Transmitted Light DIC Microscopy", SPIE 2984:220-231 (1997).
	AQ	Schormann, T. et al., "Contrast Enhancement and Depth Perception in Three-Dimensional Representations of Differential Interference Contrast and Confocal Scanning Laser Microscope Images", J. Microsc. 166:155-168 (1992).
	AR	Hecht E. et al., "Optics", 2 nd Edition, Addison-Wesley Reading MA (1997).

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DATE CONSIDERED:

10/13/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

 FORM PTO-1449 (Colb) U.S. PATENTS AND PUBLICATIONS FOR APPLICANTS' INFORMATION STATEMENT	ATTY DOCKET NO. U 013475-2	SERIAL NUMBER 09/856,422
	APPLICANT Zvi KAM, et al.	
	FILING DATE May 21, 2001	GROUP ART UNIT N/A

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U.S. PATENT DOCUMENTS

Examiner's Initials	DOCUMENT NO.	DATE	NAME	CLASS	SUB	FILING DATE
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FOREIGN PATENT DOCUMENTS

DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB	TRANSLATION
AB					

OTHER ART (Including Author, Bills, Pertinent Pages, Etc.)

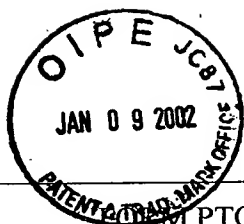
AC	Jenkins, F.A. et al., "Fundamentals of Optics", McGraw-Hill, NY (1950) CH.8: Ray Tracing.
AD	Born M. et al., "Principles of Optics", Pergamon London (1959).
AE	Goodman J.W. "Statistical Optics", John Wiley & Sons NY (1985).
AF	Gibson S.F. et al., "Modeling Aberrations Due to Mismatched Layers for 3-D Microscopy" SPIE Optics in Complex Systems 1319:470-471 (1990).
AG	Gibson S.F. et al., "Experimental Test of an Analytical Model of Abberation in an Oilimmersion Objective Lens Used in Three-Dimensional Light Microscopy", J. Opt. Soc. Am. A8:1601-1613 (1991).
AH	Jansson, P.A. ed. "Deconvolution of Images and Spectra", Academic Press NY (1997).
AI	Agard, D.A. et al., "Three-Dimensional Architecture of a Polyene Nucleus", Nature 302:676-681 (1984).
AJ	Agard, D.A. et al., "Fluorescence Microscopy in Three Dimensions", Methods in Cell Biology 30:353-377 (1989).
AK	Boden, A.F. et al., "Comparative Results with Massively Parallel Spatially Variant Maximum Likelihood Image Restoration", Bul Am Astr. Soc. 27:924-929 (1995).
AL	Boden, A.F. et al., "Massively Parallel Spatially-Variant Maximum Likelihood Restoration of Hubble Space Telescope Imagery", J. Opt Soc Am A 13:1537-1545 (1996).
AM	Tyson R.K. "Principles of Adaptive Optics", Academic Press NY (1991).
AN	Carrington, W.A. et al., "Superresolution Three Dimensional Images of Fluorescence in Cells with Minimal Light Exposure", Science 268:1483-1487 (1995).
AO	Femino, A.M. et al., "Visualization of Single RNA Transcripts in Situ", Science 280:585-590 (1998).
AP	Z. Kam, "Microscopic Differential Interference Contrast Image Processing by Line Integration (LID) and Deconvolution", Bioimaging 6(4): 166-176 (1998).
AQ	Nomarski's DIC Microscopy: A Review, Institute of Applied Optics, SPIE 1846:10-25 (1994).

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Date: November 29, 2001

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PTO-1449 (Colb)	ATTY DOCKET NO. U 013475-2	SERIAL NUMBER 09856,422
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS' INFORMATION STATEMENT	APPLICANT Zvi KAM, et al.	
	FILING DATE May 21, 2001	GROUP ART UNIT N/A

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U.S. PATENT DOCUMENTS

Examiner's Initials		DOCUMENT NO.	DATE	NAME	CLASS	SUB	FILING DATE
<i>[Signature]</i>	AA	5,783,833	July 1998	Sugaya et al.			
<i>[Signature]</i>	AB	6,084,227	June 1999	Rhoads			
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	AD						

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	AE						
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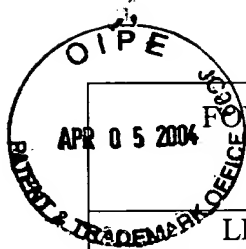
OTHER ART (Including Author, Bills, Pertinent Pages, Etc.)

<i>[Signature]</i>	AG	Scalettar, B.A. et al., "Dispersion, Aberration and Deconvolution in Multi-Wavelength Fluorescence Images", <i>Journal of Microscopy</i> , vol. 182, no. 1, April 1996, pp. 50-60.
<i>[Signature]</i>	AH	Patent Abstracts of Japan, vol. 1997, no. 08, Aug. 1997.
<i>[Signature]</i>	AI	Agard, D. et al., "Three-Dimensional Microscopy: Image Processing for High Resolution Subcellular Imaging", <i>New Methods in Microscopy and Low Light Imaging</i> , USA, Aug. 1989, vol. 1161, pp. 24-30.
<i>[Signature]</i>	AJ	Z. Kam, et al., "Computational Adaptive Optics for Live Three-Dimensional Biological Imaging", PNAS, March 27, 2001, Vol. 98, No. 7, pp. 3790-3795.
	AK	
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	AN	
	AO	
	AP	
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DATE CONSIDERED: 10/13/04

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Date: March 11, 2004

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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS' INFORMATION STATEMENT	APPLICANT Zvi KAM, et al.	EXAMINER (N/A)
	FILING DATE December 13, 2001	GROUP ART UNIT 2621

U.S. PATENT DOCUMENTS

Examiner's Initials		DOCUMENT NO.	DATE	NAME	CLASS	SUB	FILING DATE
<i>[Signature]</i>	AA	4,720,633	01-1988	Nelson	250	310	
<i>[Signature]</i>	AB	4,880,976	11-1989	Mancuso, et al.	250	310	
<i>[Signature]</i>	AC	5,412,211	05-1995	Knowles	250	310	
<i>[Signature]</i>	AD	5,789,748	08-1998	Liu, et al.	250	310	
<i>[Signature]</i>	AE	6,459,482	10-2002	Singh, et al.	356	243.1	
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB	TRANS- LATION
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	AH						

OTHER ART (Including Author, Bills, Pertinent Pages, Etc.)

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